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HARVARD SCHOOL OF DENTAL MEDICINE

1955–1956

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These publications include the report of the president; the general catalogue issue; the announcements of the College and the several professional schools of the University; the courses of instruction; the pamphlets of the several departments; and the like.

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MAIN ENTRANCE TO THE DENTAL BUILDING, LONGWOOD AVENUE, BOSTON

HARVARD SCHOOL OF
DENTAL MEDICINE

25 SHATTUCK STREET
BOSTON, MASSACHUSETTS

AIMS, GENERAL INFORMATION
ANNOUNCEMENT OF COURSES

1955–1956

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CONTENTS

	PAGE
Dental Education at Harvard University	5
Administrative Officers	8
Committee on Dental Curriculum	8
Dental Advisory Board	9
Administrative Board	9
Buildings	11
Hospital Facilities	11
Libraries	12
Requirements for Admission	13
Admission for Servicemen	15
Admission to Advanced Standing	16
General Regulations	16
Promotion Boards	17
General Examination	17
Withdrawal from the School	17
Degree of D.M.D.	18
Higher Degrees in the Medical Sciences	18
Fees and Expenses	19
Student Employment	19
Dormitory	19
Bond Required	20
Student Health Service	20
Scholarships	21
Post Doctoral Fellowships	23
Prizes	24
Honorary Fraternity	24
Loan Funds	24
Announcement of Courses	27
Division of Studies for the First and Second Years	27
Orientation in Dentistry	27
Anatomy	28
Physiology	28
Biological Chemistry	29

PAGE
Bacteriology 29
Pathology 30
Tropical Public Health 31
Pharmacology 31
Medicine 31
Neurology and Psychiatry 32
Pediatrics 33
Obstetrics 34
Surgery 35
Division of Studies for the Third and Fourth Years 36
Oral Histology and Pathology 37
Dental Anatomy 37
Radiology 37
Operative Dentistry 38
Prosthetic Dentistry 38
Complete Denture Prosthesis 39
Removable Partial Prosthesis 39
Fixed Partial Prosthesis 39
Stomatology 39
Dental Medicine 39
Periodontics 40
Dental Materia Medica 40
Oral Surgery 40
Pediatric Dentistry 40
Orthodontics 41
Endodontics 41
Dental Research 42
Introduction to Dental Research 42
Research Project 42
Seminar 43
Nutrition 43
Dental Public Health 43
Dental Practice Management 44
Courses Offered to Medical Students by the School of Dental Medicine 44
Courses for Higher Degree in Medical Science 44
Course for Dental Graduates 45
Staff 46
Students Enrolled in School of Dental Medicine 48
Summary 50
Academic Calendar . . . . . Inside back cover

Dental Education at Harvard University

IN 1941 Harvard University instituted a revised plan for dental education based on the conviction that modern dentistry needs practitioners with a broader understanding of human biology, wider clinical experience, and an intimate knowledge of the methods and aims of dental research. To implement its new program (and with the aid of funds assembled from various sources) the University increased the full-time teaching staff of its dental school and inaugurated a large-scale program of dental research. The curriculum was altered to place additional emphasis on the biological aspects of dentistry, to attack dental problems from the point of view of prevention as well as treatment and to permit closer correlation of clinical practice with the basic sciences.

During the first two years advantage is taken of the excellent facilities of the Harvard Medical School for instruction of Harvard dental students in anatomy, biochemistry, pathology, and the other pre-clinical sciences. Harvard dental and medical students, thus jointly taught, acquire the same basic knowledge of the whole human organism, without regard to the specialty which each will later pursue. Both medical and dental students are observed to emerge with a heightened respect and understanding for each other's province.

During the third and fourth years the dental students take the greater part of their clinical work in the clinic of the School of Dental Medicine. Here a high faculty-student ratio permits the staff to teach by the tutorial method. Individual supervision, small

group conferences, and seminars largely replace didactic lectures. As much instruction as possible is given on the clinic floor at the chairside. And, because the classes are small, the faculty can combine to teach all the various departments of dentistry in a single clinic. Thus the student learns from the very beginning to apply the different types of dental treatment in relation to each other and to a patient's total needs.

To widen their clinical experience students participate in the School's "mouth clinic" at the Massachusetts General Hospital. Here they treat a greater variety of oral and head cases than are available at the usual dental school out-patient clinic, serving as assistants to the oral surgeon in the operating room and administering ward care. They also have ample opportunity at the Children's Hospital to observe children's growth and development in health and disease. Here the student studies dental ills in their incipient form, in keeping with present day emphasis on checking disease in the child as well as alleviation of the ills of the adult.

To familiarize them with dental research, the students are introduced to the various studies in progress in the School's several laboratories. Here the staff conducts numerous investigations into the chemistry and physiology of teeth and oral tissues, the effects of dietary constituents and hormones on growth and development, the use of radioactive isotopes, and other related subjects. Students are encouraged to take part in these projects during their free time, and each one is required to devote a hundred and twenty hours or more to an elective project in clinical or laboratory research.

In their hospital and laboratory training, as in their work at the School's clinic, the small teaching groups allow close individual supervision and flexible methods of instruction. Under this system the teaching can be adapted to the needs of the particular student, and he in turn can progress as rapidly as he assimilates course material. Besides its own staff and those of the Medical School and the teaching hospitals, the dental school draws for instruction upon the faculties of the Harvard School of Public Health and the science departments of the University proper in Cambridge. With

such rich opportunities open to him, it is literally true that a student's own initiative is the largest determinant of just how much education he will acquire at the Harvard School of Dental Medicine, beyond minimum requirements.

The recipient of the degree of D.M.D. from the School of Dental Medicine is well prepared to meet State Board requirements for license to practice dentistry and to serve with distinction as a practitioner of general dentistry, applying the latest discoveries of dental science to the continuing fight against oral disease. Graduates are also ready for the advanced study and experience recommended for any of the specialties of dentistry. They are also well-equipped to begin teaching or research careers and to work in effective collaboration with their medical colleagues.

ADMINISTRATIVE OFFICERS

President: Nathan Marsh Pusey, ph.d., ll.d. (hon.), l.h.d. (hon.).
Office, 1 Massachusetts Hall, Cambridge.

Dean of the Faculty of Medicine and *of the Medical School:* George Packer Berry, m.d., ll.d., a.m. (hon.), s.d. (hon.).
Office, Administration Building, Medical School.

Dean of the School of Dental Medicine: Roy Orval Greep, ph.d., a.m. (hon.).
Office, Administration Building, Medical School.

Associate Dean of the School of Dental Medicine: Reidar Fauske Sognnaes, ph.d., d.m.d.
Office, Administration Building, Medical School.

Assistant Dean: Kendall Emerson, Jr., m.d.
Office, Administration Building, Medical School.

Assistant Dean: Henry Coe Meadow, s.b.
Office, Administration Building, Medical School.

Assistant Dean in Charge of Courses for Graduates: Eugene Charles Eppinger, m.d.
Office, Administration Building, Medical School.

Chairman of the Division of Medical Sciences of the Faculty of Arts and Sciences: Eric Glendinning Ball, ph.d., s.d. (hon.), Harvard Medical School.
Office, Building D, first floor.

COMMITTEE ON THE DENTAL CURRICULUM

Roy O. Greep, ph.d., a.m. (hon.), *Dean* and *Professor of Anatomy in the School of Dental Medicine.*

Reidar F. Sognnaes, ph.d., d.m.d., *Associate Dean* and *Charles A. Brackett Professor of Oral Pathology.*

Myron J. Van Leeuwen, d.d.s., *Assistant Professor of Operative Dentistry* and *Director of Clinic; Chairman.*

Melvin I. Cohen, d.m.d., *Instructor in Orthodontics.*

Joseph P. Jazowski, d.m.d., *Assistant Clinical Professor of Prosthetic Dentistry.*

Paul K. Losch, d.d.s., *Associate Professor of Pediatric Dentistry at the Children's Hospital.*

Arthur M. Maloney, d.m.d., *Associate Professor of Prosthetic Dentistry.*

Paul L. Munson, ph.d., *Assistant Professor of Pharmacology in the School of Dental Medicine.*

James H. Shaw, ph.d., *Assistant Professor of Biological Chemistry in the School of Dental Medicine.*

G. Earl Thompson, d.m.d., *Associate Clinical Professor of Operative Dentistry.*

David Weisberger, d.m.d., m.d., *Professor of Dental Medicine.*

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Ronald M. Ferry, m.d., *Associate Professor of Biochemistry* and *Tutor in Biochemical Sciences.*

A. Baird Hastings, ph.d., s.d. (hon.), *Hamilton Kuhn Professor of Biological Chemistry.*

Arthur Tremain Hertig, m.d., *Shattuck Professor of Pathological Anatomy.*

Charles A. Janeway, m.d., *Thomas Morgan Rotch Professor of Pediatrics.*

Paul K. Losch, d.d.s., *Associate Professor of Pediatric Dentistry at the Children's Hospital.*

G. Earl Thompson, d.m.d., *Associate Clinical Professor of Operative Dentistry.*

David Weisberger, d.m.d., m.d., *Professor of Dental Medicine.*

George B. Wislocki, m.d., s.d. (hon.), *Hersey Professor of Anatomy* and *James Stillman Professor of Comparative Anatomy.*

ADMINISTRATIVE BOARD OF THE FACULTY OF MEDICINE

President: Nathan Marsh Pusey, ph.d., ll.d. (hon.), l.h.d. (hon.). (*ex officio*).

Dean: George Packer Berry, m.d., ll.d., a.m. (hon.), s.d. (hon.). (*ex officio*); *Chairman.*

Roy Orval Greep, ph.d., a.m. (hon.), *Dean of the School of Dental Medicine.* (*ex officio*).

Reidar Fauske Sognnaes, ph.d., d.m.d., *Associate Dean of the School of Dental Medicine.* (*ex officio*).

Eugene Charles Eppinger, m.d., *Assistant Dean in Charge of Courses for Graduates.* (*ex officio*).

Kendall Emerson, Jr., m.d., *Assistant Dean.* (*ex officio*).

Henry Coe Meadow, s.b., *Assistant Dean.* (*ex officio*).

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Monroe Davis Eaton, a.m., m.d., *Associate Professor of Bacteriology and Immunology.*

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Eugene M. Landis, m.d., ph.d., s.m. (hon.), *George Higginson Professor of Physiology.*

Erich Lindemann, dr.phil., m.d., *Professor of Psychiatry.*

George Van Siclen Smith, m.d., *W. H. Baker Professor of Gynecology.*

David Weisberger, d.m.d., m.d., *Professor of Dental Medicine.*

George Bernays Wislocki, m.d., s.d. (hon.), *Hersey Professor of Anatomy* and *James Stillman Professor of Comparative Anatomy.*

GENERAL INFORMATION

BUILDINGS

The Dental Building on Longwood Avenue with over twenty-nine thousand square feet of floor space contains the Dental Clinic, Dental Library, Lecture Room, Conference Room, and five large research laboratories. Also included are five individual laboratories for fellows in training, animal quarters, cold rooms, warm room, special instruments room housing an electron microscope, and two laboratory areas for studies involving use of radioactive materials. The Clinic facilities consist of a main clinic with thirty-two chairs, each with instrument cabinet and chair-side bench equipped for general dentistry; a dental laboratory, technic laboratory and preparation room; a dental surgery clinic with two chairs and recovery room; an X-ray and photography clinic with three chairs; and two special examining rooms. Special instruments include Airdent Units and a Cavitron. The Dental Library consists of two adjoining rooms, with approximately nine hundred feet of shelving space. Facilities are provided for fifty or more readers. Some of these facilities are contained in a new one and one-half story wing that was recently added to the original building. Others were made possible by alterations in the old structure.

Next door are the five large buildings of the Medical School. Building A (Administration) contains the main Medical Library, Warren Museum, and offices of the Dean of the Faculty of Medicine and the Dean of the School of Dental Medicine. Building B accommodates the Departments of Anatomy, Histology, and Embryology. Building C provides space for the Departments of Physiology, Physical Chemistry, Biochemistry, and Experimental Surgery. Building D is occupied by the Departments of Bacteriology, Biophysics, Pathology, and Preventive Medicine and also laboratories of the Department of Medicine. Building E houses Pharmacology, Legal Medicine, and Comparative Pathology and Tropical Medicine.

HOSPITAL FACILITIES

The Massachusetts General Hospital. This is a general hospital founded in 1811 and ever since associated with the Medical School. There are

services in medicine, dentistry, surgery, pediatrics, dermatology, genito-urinary diseases, orthopedics, gynecology, neurology, neurosurgery, anesthesia, and psychiatry, all of which are used in giving instruction in these special subjects in the Schools of Medicine and Dental Medicine. The hospital has 860 beds, 454 of them being available for teaching purposes. There is also a large Out-patient Department.

The Children's Hospital is located on Longwood Avenue adjacent to the Medical School. This is a specialized hospital for the care of sick and convalescent infants, children and adolescents. The hospital maintains medical, surgical, neurosurgical, orthopedic, dental, radiologic, psychiatric, and pathological services with their associated specialities. All services are utilized for teaching purposes. There are 330 beds of which 273 are available for teaching, and a large Out-patient Department.

The Forsyth Dental Infirmary for Children. This large dental clinic, located at 140 The Fenway, is but a few minutes walk from the School of Dental Medicine. In addition to the large Central Clinic there are services in oral surgery, orthodontia and pediatric dentistry. Students will have the opportunity to acquaint themselves with the flow of ambulatory patients presenting a broad spectrum of oral diseases. The opportunities for students to carry out clinical observation of an investigative nature at the Forsyth are excellent. The Forsyth also affords opportunities for summer experience for students and an internship base for dental graduates.

Hospitals used for the teaching of physical diagnosis in the second year include the Massachusetts General Hospital, the Boston City Hospital, the Peter Bent Brigham Hospital, the Beth Israel Hospital and the House of the Good Samaritan. Further description of all these hospitals will be found in the complete catalogue of the Medical School and the School of Dental Medicine.

LIBRARIES

The School of Dental Medicine Library, at 188 Longwood Avenue, is open from 9 A.M. until 5 P.M. (with one hour for lunch), Monday through Friday, 7 P.M. until 10 P.M. Monday through Thursday evenings, and 9 A.M. until 12 noon two Saturdays a month. The present number of volumes in the library is 5,165 and in addition there are 1,854 pamphlets and 138 current periodicals on file.

The librarian is Miss Maisie E. Parsons. Dr. Melvin I. Cohen is Chairman of the Library Committee.

The joint library of the Medical School and the School of Public Health is on the second floor of the Administration Building, and in the other buildings are branch libraries. This library is open from 9 A.M. until 10 P.M., on Saturdays from 9 A.M. until 5 P.M., and on Sundays from 2 P.M. until 6 P.M. The present number of volumes in the library is 108,766 and in addition there are 209,561 pamphlets and 933 current periodicals on file.

REQUIREMENTS FOR ADMISSION

Candidates for admission to the first-year class must present evidence satisfactory to the Committee on Admission, not simply that they have passed the courses necessary to fulfill the requirements, but also that their college work and other credentials have been of such character as to give promise of work of high quality in the dental course. Students who satisfy the committee in other respects are rarely admitted on the basis of only two years of college work; three or four years are strongly recommended.

In general, the School considers for admission to its classes students in good standing in arts or in sciences in colleges listed as approved in the *Higher Education Directory*, published by the Office of Education of the U.S. Department of Health, Education and Welfare, or in any of the institutions included in *Approved Colleges of Arts and Sciences*, published by the Council on Medical Education and Hospitals of the American Medical Association. (Colleges of pharmacy, optometry, veterinary medicine, agriculture, as well as junior colleges and evening and university extension courses, are not ordinarily included in the approved list. Therefore, credits earned in such institutions are not acceptable to the Committee.) Credentials from foreign universities, in most cases, must be supplemented by a year or more of work in an approved university in the United States. Admission cannot be assured as the class of the School of Dental Medicine is limited by Faculty rule.

A reasonable level of good health is required. A certificate of vaccination and the report of a recent chest X-ray must be submitted before matriculation.

Applications from individuals who have not been admitted to the School on the basis of *two* previous applications will not be considered by the Committee.

In order to meet the present legal requirements of state licensing boards and to have the needed basic understanding, the following specific college credits must be secured:

Biology: The student should take a general survey course in biology which should emphasize the structure, function, natural history and evolution of plants and animals. A course in embryology is distinctly recommended but bacteriology, human anatomy and histology will not be considered as meeting the biology requirements. A satisfactory course should show college credits of at least eight semester hours.

Chemistry: The student should acquire a sound understanding of the basic principles of chemistry, both inorganic and organic, including a solid foundation in aromatic compounds. He must have taken not less than 16 semester hours of chemistry, which should be about equally divided between inorganic and organic chemistry. Biochemistry will not be accepted as meeting these requirements.

To be adequately prepared for the work in chemistry in the Medical School, it is desirable that the student have had experience with the application of chemical laws to gases and solutions, and some experience with quantitative techniques (particularly volumetric analysis).

Physics: The student should acquire an understanding of the general principles of physical laws and phenomena, and have experience in mechanics, heat, light, sound and electricity. College credit for eight semester hours should be secured.

These science courses must be accompanied by laboratory work taken as a part of the college courses. A semester hour, as used above, we consider in general to be one hour of lecture or recitation, or two hours of laboratory work per week, for one-half year of sixteen weeks.

English: The student must have facility in the use of English in speech and composition. A one year course in which composition is included is acceptable but two years of college English are recommended. Even though, in the judgment of the authorities of the applicant's college, he has obtained enough training in secondary school to be exempted from the usual beginning course in English, an advanced course in English is strongly recommended.

Modern Language: The student should have a reading knowledge of a modern language important to dentistry in addition to English. A reading knowledge presupposes two years of high school and one year of college work, or two years of college work. The Committee on Admission suggests French, German, Italian, Spanish, or Russian as suitable languages. If in the judgment of the authorities of the applicant's college, he has obtained enough training in secondary school to be exempted

from the usual beginning course in a college foreign language or to have achieved a reading knowledge of that language, an advanced course in the same foreign language is strongly recommended.

The Dental Aptitude Test is a requirement for admission to this School. It is administered in October, January and April. Application blanks may be secured from the Division of Educational Measurements, Council on Dental Education, American Dental Association, 222 East Superior Street, Chicago 11, Illinois.

Experience has shown that the Medical College Admission Test (MCAT), which is administered by the Association of American Medical Colleges, provides valuable additional information about applicants for the study of medicine. The Admission Committee recommends, therefore, that candidates hoping to enter the School of Dental Medicine take this test. When this has not been feasible, however, candidates who have not taken the MCAT will be considered by the Committee for admission to the School of Dental Medicine.

Applicants to the 1956 class should take this test in May or November 1955. Information may be obtained by writing to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey. In most colleges there is a representative of the Educational Testing Service who will have up-to-date information.

Interviews are looked upon as an important part of the total evaluation of candidates for admission to the School and may be required of any candidate.

ADMISSION FOR SERVICEMEN

The Harvard School of Dental Medicine welcomes inquiries regarding future application from men who are now on active duty with the armed forces. The Committee on Admission cannot act on applications from men still on active duty and not released from service. The applications of men on terminal leave or whose date of discharge is definitely known may be considered by the Committee. The qualifications for admission remain essentially the same for veterans as for civilian applicants. Before the acceptance of a veteran can become final, the applicant will need to submit photostatic copies of discharge papers or similar evidence of honorable release. Where available the applicant should file also a copy of his "Separation and Qualification Record" on which is listed in detail his service record and training. If the Committee does not act favorably on an application, certifications

furnished by the applicant may be returned at his request. It is the responsibility of the applicant to take the necessary steps toward obtaining government benefits for servicemen eligible for them under Public Laws 16 ("Rehabilitation"), 346 ("G.I. Bill"), 550 (Korean "G.I. Bill") or 894 (Korean Rehabilitation).

The University has established the Office of Counsellor for Veterans to form a central point for answering inquiries and advising veterans. On request, the Counsellor for Veterans can furnish a brief statement of the necessary procedures required by the Veterans Administration to receive such benefits. For matters relating to veterans' affairs and not connected directly with the Medical School or the School of Dental Medicine, the applicant should feel free to write to the Counsellor for Veterans, Lehman Hall, Cambridge 38, Massachusetts.

ADMISSION TO ADVANCED STANDING

The third year class may be increased by a small number, making place for transfer students from medical schools. Vacancies in the second year class may also be filled by transferring students. No students may transfer to the fourth year class without a special vote of the faculty in each instance.

Students of high scholastic standing will be considered. They must be vouched for as promising by the Dean of the school from which they come and must furnish a certificate of time spent in medical studies at least equal to that spent by the class to which they seek admission. Full credit for work done elsewhere will be allowed as a rule, but in certain cases additional work may be required. Ordinarily such requirements can be completed during the summer holiday preceding transfer. All the requirements for the first year class must have been fulfilled by applicants for advanced standing.

Foreign students will be required to spend two years in the School in order to receive the D.M.D. degree. For admission to the third year class they must demonstrate medical study the equivalent of the first two years in an American *medical* school.

Applications may be obtained at the Dean's Office approximately one year prior to the expected date of admission.

GENERAL REGULATIONS

First year students for 1955 will register in the amphitheatre in Building C on Friday, September 23, 1955, at 10:00 A.M.

In order that the time of study shall count as a full year, students of all upper classes must register on Monday, September 26, 1955, the first day of the session.

A fee of $10 is charged for late registration.

Promotion Boards:

First and second year students. Promotion Boards for the first and second years are composed of one representative from each department in the Medical School responsible for grading the student, plus the Dean and Associate Dean of the School of Dental Medicine who are non-voting members. Opportunity will be given to students to appeal the decision of a Promotion Board either at a special meeting or at the next regular meeting of the Board. Appeals must be sent to the Chairman of the Promotion Board, Harvard Medical School and, to be valid, be received by him within two weeks after the issuance of a Promotion Board's notice of formal action.

Third and fourth year students. The Promotion Board in the School of Dental Medicine is composed of five members representing the various divisions of dental teaching. The duties consist of evaluating unsatisfactory student performance and acting to correct such performance. In addition the Board recommends third year students for promotion into the fourth year and fourth year students for graduation.

General Examination:

A committee will give a General Examination to each candidate for the degree of D.M.D., and will assign him a final mark. It will recommend to the Faculty those who pass and are otherwise qualified for the degree and for honors. The conditions under which a student may take a General Examination and the character and conduct of the examination will be determined by the committee subject only to rules of the Faculty.

Withdrawal from the School:

The Faculty reserves the right to require the withdrawal of any student at any time when in the opinion of his instructors he is manifestly unqualified to continue his studies.

A student may withdraw voluntarily from the School upon application to the Dean. Application for reinstatement by any student must be received in writing at least four months prior to the date of readmission and for favorable action must be approved by the Committee on Admission. After two years, favorable action will usually not be taken.

For additional regulations see the complete catalogue of the Schools of Medicine and Dental Medicine.

DEGREES

DOCTOR OF DENTAL MEDICINE

Every candidate for the degree of *Doctor of Dental Medicine* at this University must be at least twenty-one years of age and of good moral character. He must have fulfilled all the requirements for admission to this School; give evidence of having studied at least two full years in a recognized medical school and two years in a recognized dental school, of which one year must be spent in the regular fourth year course of this School. He must have passed all the required examinations and have satisfactorily completed the minimum requirements for work in the various laboratories and clinics.

The degree of Doctor of Dental Medicine *cum laude*, *magna cum laude*, or *summa cum laude* may be given to students of highest general rating in the class, on recommendation of the Committee on Examinations. The degree is also awarded, where appropriate, with honors for thesis in a special field.

Every candidate for the degree of D.M.D. must make application for it in writing on blanks furnished by the Dean's office, on a date to be announced.

HIGHER DEGREES IN THE MEDICAL SCIENCES

The degrees *Master of Arts* and *Doctor of Philosophy* have been established for advanced work in some special field in the medical sciences. The two degrees are voted by the Faculty of Arts and Sciences upon the recommendation of a Committee consisting of members of the Faculties of Medicine and of Arts and Sciences. All candidates for these degrees must hold a degree in Arts or in Sciences from an approved college. These degrees are not awarded for mere reason of faithful study for a prescribed time, but primarily for high attainment in a selected science.

Master of Arts and Doctor of Philosophy

Candidates for the degree of *Master of Arts* must register in the Graduate School of Arts and Sciences, and pursue an approved course of study in medical science for at least one year which must be spent in residence.

Candidates for the degree of *Doctor of Philosophy* must fulfill certain preliminary requirements described in the general University Catalogue, must devote to approved advanced studies not less than two years – at least one of which must be spent in residence at this University – and must pass general examinations and present an account of original work in an accepted thesis, before being granted the degree.

TEACHING CLINIC AT HARVARD SCHOOL OF DENTAL MEDICINE

MASSACHUSETTS GENERAL HOSPITAL

FEES AND EXPENSES

An estimate of total yearly expenses shows that the average cost of the school year is $2,500 for each academic year. This estimate includes tuition, medical health fee, board and room, books, laundry and incidentals. Total costs over the four years for tuition, fixed fees, instruments, textbooks and supplies are estimated at $5,150 which is very close to the national average for these expenses as found by the American Dental Association in a recent survey.

The fees are: — For matriculation, $5; for medical health fees, $50 for each year; for instruction (including laboratory charges except breakage, damage and loss of apparatus), $1000 for each year.

The term-bills are issued approximately every two months.

Bills for miscellaneous charges will be rendered at the time the indebtedness is incurred.

All indebtedness to the University must be paid by all candidates for degrees at least one day before Commencement.

A deposit of $50 is required of every new student who accepts a place in the School of Dental Medicine; this sum to be applied on his first term-bill or to be forfeited if the student does not register.

Students are required to have their own microscopes, haemocytometers, stethoscopes and ophthalmoscopes. A limited number of microscopes is available for rental each year. Third year students are required to purchase a set of dental instruments at a cost of between $700 and $800. Other instruments and supplies are furnished by the School.

STUDENT EMPLOYMENT

The Dean's Office makes every effort to assist students in obtaining part-time work during the college year and full-time work during the summer vacation. The service is furnished without cost either to the student or to the employer. It is recommended, however, unless a student sees reasonably clearly how he will meet the expenses of at least the first year in the School, that he postpone his entrance until he can save enough money to get started without having ahead of him oppressive financial worry.

Only a limited amount of outside work can be done without being a tax on the student's health and scholarship.

DORMITORY

Vanderbilt Hall, the Medical School dormitory, has accommodations for 325 male students. The majority of the rooms are designed for one occupant.

Many of the rooms communicate directly with the adjacent room, and there are also a number of suites for two or more persons. The price of rooms ranges from $200 to $450 per person for the academic year. Application forms for rooms in Vanderbilt Hall will be sent to all new students approximately four months before registration day. The date on which they must be returned in order to be included in the drawing will be announced at that time. Students are permitted to reengage their rooms for the following year by signing lease cards at the Dean's Office. The dormitory has squash courts and a gymnasium which are open to members of the teaching staff and students of the Medical School and School of Dental Medicine. In addition the Schools have tennis courts and have an outside exercise field. There is a parking lot for automobiles behind the hall which is owned by the Schools. No charge is made for this facility and the Schools assume no responsibility for loss or damage to automobiles or other property left in the lot.

The dormitory contains a large dining hall which is available for all members of the Schools. Meals are served at reasonable prices.

BOND REQUIRED OF STUDENTS

On his entrance to the School every student is required to file with the Bursar a bond in the sum of $500 as security for payment of University bills. The bond must be signed by two bondsmen, both of whom must be citizens of the United States, or by a surety company duly qualified to do business in Massachusetts.

No officer or student of the University will be accepted as a bondsman and in no case will more than one parent be accepted as a bondsman. In lieu of the bond a student may deposit with the Bursar five hundred dollars in United States government coupon bonds, or five hundred dollars in cash which will bear no interest.

STUDENT HEALTH SERVICE

The Harvard Medical Center Clinic at the Peter Bent Brigham Hospital, 721 Huntington Avenue, supplies medical care to the students. The clinic is open daily except Saturday afternoons, Sundays, and holidays from 8:30 A.M. to 5:00 P.M.; office hours for the physicians are 8:30 to 9:30 A.M. and 1:00 to 2:00 P.M. However, one of the staff is available during the day by appointment. For emergency care at night and on holidays, the Emergency Service

of the Peter Bent Brigham Hospital is open at all times and one of the staff of the clinic is available by telephone. A complete medical examination of each new student is required at the beginning of the school year. This is conducted by appointment shortly after school opens.

Dental students with minor illnesses requiring rest in bed, as well as more serious cases, will be hospitalized either at the Peter Bent Brigham Hospital or at one of the other teaching hospitals associated with the Medical School. Upon registration, each student receives a booklet which describes the medical services available under the Health and Medical Care Program for Students. Hospital insurance is available through the plan for wives and children of married students.

Each student who is accepted for admission must submit, on a form supplied by the Dean's Office, a certified statement of successful vaccination within three years prior to registration. Results of a chest film made within six months prior to registration must also be submitted.

Any illness necessitating absence from classes must be reported to the physician to students. On the day the student returns to classes, the physisian to students *must* be notified.

SCHOLARSHIPS

HARVARD NATIONAL SCHOLARSHIPS

In order to make it possible for young men of outstanding ability and promise to come to the Harvard Medical School and School of Dental Medicine, two or three Harvard National Scholarships will be offered to incoming members of the combined first year class. These scholarships will carry a stipend sufficiently large, if necessary, to meet all the student's essential expenses. Successful applicants who maintain a high honor record at the School of Dental Medicine will continue to hold these scholarships throughout the School course.

Direct applications for these scholarships cannot be made since all accepted first year students are considered as candidates, the awards being made without reference to financial circumstances. The stipend will vary, however, depending on the resources of the recipient.

SCHOOL OF DENTAL MEDICINE SCHOLARSHIPS

A limited number of scholarships and fellowships are available in the School of Dental Medicine. Scholarships are awarded on the basis of academic excellence, financial need or a combination of these factors.

Applications for scholarships should be filed before *October* 7 of the academic year for which assistance is desired.

The Alford Fund (1785). Mrs. Joanna Alford. To be used for scholarships for those students who are under low and indigent circumstances.

Dwight M. Clapp (1926). Clara Josephine Clapp in memory of her husband, Dwight M. Clapp, D.M.D. 1882. For the education of a male student born in Massachusetts, preferably one who has a college education or training of a classical character.

Harvard Dental Alumni (1949). Selection of a candidate shall be based upon character, scholarship and promise within the field of dentistry. The award may be offered as a scholarship to an undergraduate student of the third or fourth year or as a fellowship for graduate work.

Thomas Alexander Forsyth (1929). Thomas Alexander Forsyth. Scholarship to two deserving men, awarded continuously until they have completed the course.

Eugene Hanes Smith (1920). Alumni Association. To be awarded to a third or fourth year student who has been a student in regular standing during the first and second years.

Peter E. Strauss (1922). Emily R. M. Strauss. In memory of her husband.

FELLOWSHIPS AND SCHOLARSHIPS AVAILABLE IN OTHER DEPARTMENTS OF THE UNIVERSITY AS WELL AS IN THE MEDICAL SCHOOL AND SCHOOL OF DENTAL MEDICINE

Unless otherwise stated, applications should be made, before *February 10*, to the Dean of the School of Dental Medicine for financial aid during the ensuing academic year. First year students are not eligible for those scholarships marked with an *.

*Austin Fellowships or Scholarships (1899). Established under the will of Edward Austin.

*Jason S. Bailey Scholarships. Under the residuary bequest of Jason Bailey. To establish scholarships for students in said University.

*Ellen S. Bates (1929). To be awarded every third year, with the next award to be made in 1955.

Baxendale (1928). Preference: (1) descendants of Alan Bedford Hudson; (2) students of the name of Baxendale or Hudson; (3) students from the City of Brockton, Mass., or from the Town of Bourne, Mass.

Bright (1880). For descendants of Henry Bright, Jr., of Watertown, Mass., who bear the name of Bright.

Daniel A. Buckley (1905). For graduates of Cambridge public schools.

George Chase Christian Memorial Scholarships (1936). To be awarded as National Scholarships to residents of Minnesota.

Mark D. Cory Scholarship (1954). To be awarded to a worthy student of the Gadsden High School, Gadsden, Alabama. Student to be selected and designated by the faculty of said high school.

Charles Downer Scholarship (1927). For students bearing the surname of Downer. If the income from the fund is not in this manner wholly used, awards to students may be made to:

(1) Descendants of members of the Class of 1889.
(2) Those whose homes are in the State of Vermont.
(3) Descendants of graduates of Harvard College.
(4) Those "of old Anglo-Saxon stock."

*Joseph Eveleth (1896). Joseph Eveleth. To aid students in Harvard College or any of the schools connected therewith.

*Gage Scholarship (1948). For one or more scholarships in such departments of the University as the said President and Fellows may determine.

Lewis and Harriet Hayden (1894). Open to colored students in the Medical School, School of Public Health and the School of Dental Medicine.

Charles W. Holtzer (1929). For students of German birth who have received their preliminary education in German institutions of learning.

Lincoln (1876). Preference: students from Lincoln, Mass.

Arthur Lehman Fund (1936). For fellowships in the graduate and professional schools only of Harvard University.

Frederick E. Parlin (1928). Preference: natives of Malden or Everett, Mass.

Aristides Evangelus Phoutrides (1925). For students of Greek birth or of Greek parentage.

Princeton (1910). Preference: a graduate of Princeton University. Application should be made to the Dean of the Graduate School of Princeton University before February 10.

Leon W. Redpath (1938). For deserving students from the State of Ohio. Preference: students from Stark and Tuscarawas Counties.

Franklin Reynolds (1925). For students in any department of Harvard University who are natives of Marblehead, Mass.

James A. Rumrill (1909). For a properly qualified graduate of a college or university in Virginia, North Carolina, South Carolina, Florida, Georgia, Tennessee, or Kentucky. The selection to be made on the advice of the President and Faculty of the institution from which the student comes.

Charles H. Smith Bequest (1947). For students in said University who shall be graduates from any of the High Schools of the City of Providence.

Stoughton (1701). Preference: (1) students from Dorchester, Mass.; (2) students from Milton, Mass.

1902 World War Memorial (1923). Preference: (1) sons of 1902 men killed in World War 1; (2) descendants of the Members of the Class of 1902.

The scholarships of the present are the result of the generosity and faith of members of a former generation. Current recipients of scholarships have an opportunity to render a service to future generations by refunding at some time after graduation a part or all of the scholarship money they have received.

POSTDOCTORAL FELLOWSHIPS

A limited number of fellowships are made available to young dental graduates and to others with equivalent training and kindred interests. The purpose of the fellowships is to provide an opportunity to young men and women who desire to prepare themselves adequately for teaching and research. A variety of courses and research opportunities will be provided in the natural sciences. The fellowships will be awarded on the basis of scholastic record and evidence of genuine interest in an academic career in dentistry. Those wishing to engage mainly in research work will be appointed to the staff as Research Fellows, and those interested principally in teaching may be similarly appointed as Teaching Fellows. Research Fellows qualifying for admission to the Graduate School of Harvard University may become candidates for the Ph.D. degree in the Division of Medical Sciences.

Remuneration will vary with the accomplishments and family obligations of the fellow, but will not be less than $3000 for postdoctoral fellows.

Fellows may be reappointed for one or two additional years as their progress and needs warrant.

Applications must be received by March 1 of any year for Fellowships beginning the following September.

PRIZES

Dr. Grace Milliken (1950). The income of one thousand dollars to be

awarded annually if practicable, but at least once in three years, for an outstanding essay on the general subject of dental health.

Harvard Odontological Society (1949). The Harvard Odontological Society each year presents a Certificate of Merit to the best Senior Seminar Essayist of that year. This senior is selected by the Awards Committee of the School of Dental Medicine.

HONORARY FRATERNITY

Omicron Kappa Upsilon (1914). A national dental honorary fraternity organized to encourage a high grade of scholarship. Approximately three members of the senior class are elected each year on recommendation of the Dean.

LOAN FUNDS

Apply at Dean's Office

Funds have been established to which students who are in need of money may make applications for loans.

Application for loans should be made within two weeks of registration. In case of unforeseen emergency loans may be made at any time. Loans are made to meet term-bills and cash is provided rarely. Unless otherwise indicated, interest at the rate of 1% per year will be charged on loans, payable on the first of July and continuing at this rate until the July 1st three years after the borrower's graduation from the School. Thereafter, interest at the rate of 4½% per year will be charged annually on July 1st on outstanding loans. Where the student borrower, for any reason, leaves the School prior to graduation, interest at the rate of 1% will be charged from the date of loan until the date of separation from the School and interest at the rate of 4½% will be charged thereafter.

Notes are payable at any time but become due on July 1st five years after graduation.

Limited loans will be made to students in the second, third, and fourth year classes whose records have been sufficiently creditable to make it probable that they will remain in the School and whose other financial obligations do not make it improbable that this loan will be repaid. Recent matriculants may apply for loans only in their second half-year and then only in case of unanticipated financial difficulty.

The Christian Soldier Fund (1925). Established by Miss Caroline F. Anderson for promising dental students. The loan carries no interest but the

recipient must sign a note obligating him to repay the loan in not more than five years.

Dental Alumni Loan Fund (1927). Dental Alumni Association and Classes of 1900, 1901, 1902, 1904, 1905, 1906 and 1908. This is by far the largest fund. Loans are made with interest on recommendation of the Dean of the School of Dental Medicine.

Lucinda Davis Fernald Fund (1936). A small fund, the gift of Adelbert Fernald, D.M.D. 1896, to be loaned to deserving New England-born students of good character.

Robert T. Moffatt Fund (1925). A small fund from various contributors in memory of Dr. Robert T. Moffatt, D.M.D. 1895, for the benefit of needy and deserving students.

School of Dental Medicine Revolving Loan Fund (1952). Recognizing the need for student loan money in the School, the President and Fellows of Harvard College authorized appropriation from the credit balance to establish this fund.

School of Dental Medicine Loan Fund (1953). An appropriation from the School's funds to establish additional loan money for needy students.

For additional services see the complete catalogue of the Schools of Medicine and Dental Medicine.

ANNOUNCEMENT OF COURSES

DIVISION OF STUDIES FOR THE FIRST AND SECOND YEARS

Total Number of Hours for Each Subject

FIRST YEAR	HOURS	SECOND YEAR	HOURS
Anatomy	280	Bacteriology	200
Histology	280	Pathology (including Parasitology and Neuropathology)	357
Physiology	256	Pharmacology	160
Biochemistry	256	Laboratory Diagnosis	100
Medical Psychology	10	Physical Diagnosis	145
Orientation	5	Surgery	100
		Obstetrics	12
		Neurology and Psychiatry	16
Total	1087	Total	1090

Descriptions of courses for the first and second years are abridged. See complete catalogue of the Harvard Medical School and School of Dental Medicine for further particulars.

Orientation in Dentistry

Roy O. Greep, ph.d., a.m. (hon.), *Dean of the School of Dental Medicine.*
Melvin I. Cohen, d.m.d., *Clinical Associate in Orthodontics.*
Douglas A. Atwood, m.d., d.m.d., *Instructor in Prosthetic Dentistry.*
George Christman, d.m.d., *Instructor in Oral Surgery.*
David J. Farrell, d.m.d., *Instructor in Prosthetic Dentistry.*
Julian M. Rothblatt, d.m.d., *Instructor in Orthodontics.*
Lennard T. Swanson, d.m.d., *Instructor in Orthodontics.*
Charles L. Boyers, Jr., d.m.d., *Assistant in Pediatric Dentistry.*
Owen W. Kite, d.m.d., *Assistant in Dental Medicine.*

Orientation in Dentistry. *First year.* — This course is designed to intro-

duce the student early in his dental education to the various phases of clinical dentistry and to correlate the preclinical sciences with clinical practice. Case presentations, clinic and hospital visitations, and informal seminars are arranged on Saturday mornings in the early part of the first year.

Anatomy

George B. Wislocki, m.d., s.d. (hon.), *Hersey Professor of Anatomy, James Stillman Professor of Comparative Anatomy* and *Head of the Department.*

In the Department of Anatomy, instruction is given in gross human anatomy, histology, neurology, and embryology. Opportunities are also afforded for advanced work and investigation in these subjects.

Required Courses

Anatomy A and B. *First Year.* — The courses of the first year are intended to teach human anatomy, both gross and microscopic, together with the essentials of human embryology and neurology. Half of the time is devoted to work in the dissecting rooms, the other half to work in the histological and embryological laboratories.

Lectures. Dr. Wislocki and Associates. *Six lectures a week, first half-year.* 96 hours.

Demonstrations. *To sections of the class, at the pleasure of the instructors.*

Laboratory work. *Twenty-nine hours a week, first half-year.* 464 hours.

Physiology

Eugene M. Landis, m.d., ph.d., s.m. (hon.), *George Higginson Professor of Physiology* and *Head of the Department.*

Required Course

Physiology A. *First Year.* — The lectures of this course are designed to acquaint the student with the more fundamental aspects of physiology and to consider in detail those portions of the subject that are essential to an understanding of the phenomena of health and disease in man.

By means of laboratory exercises the student is introduced as rapidly as possible to the observational methods and techniques available for studying function in man. Then equal emphasis is placed upon exercises illustrating in animals the experimental procedures employed for the detailed analysis of function and for the acquisition of a fundamental knowledge of physiology.

Conferences and demonstrations supplement the more formal instruction.

Lectures and Laboratory work. Dr. Landis and Associates. *Three days a week, second half-year.* 256 hours.

Biological Chemistry

A. Baird Hastings, ph.d., s.d. (hon.), *Hamilton Kuhn Professor of Biological Chemistry* and *Head of the Department.*

Required Course

Biological Chemistry A. *First Year.* – The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of chemical substances which are to be found in animals and plants, and of the general principles and more important facts of physiological chemistry.

The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of biochemical investigation.

Conferences and discussions of selected topics supplement the main work of the course.

Lectures and Laboratory work. Dr. Hastings and Associates. *Three times a week, second half-year.* 256 hours.

Bacteriology

Monroe D. Eaton, m.d., *Associate Professor of Bacteriology and Immunology* and *Acting Head of the Department.*

The personnel and equipment of the Department of Bacteriology are prepared to supply instruction and opportunities for investigation to properly qualified undergraduate and graduate students in general bacteriology, pathogenic bacteriology, and the problems of immunity.

Required Course

Bacteriology A. *Second Year.* – The required course for medical students is taught by lectures, laboratory work, and conferences. Stress in this course is laid upon those parts of bacteriology and immunology which are directly pertinent to the pathology of infectious disease, its practical diagnosis and treatment. The students are introduced as rapidly as possible to the medical problems of bacteriology, and the subjects taught are illustrated by material obtained from the associated hospitals. Immunological and serological tech-

nic in its practical aspects is dealt with by group instruction, and the preventive aspects of the physician's duties in relation to infectious diseases are considered as thoroughly as time permits.

Lectures. Dr. Eaton and Associates. *Monday, Wednesday, and Friday afternoons. Conferences on alternate Tuesday, Thursday, and Saturday mornings in September, October, November and January, first half-year.* 104 hours.

Laboratory work. Dr. Eaton and Associates. *Two hours, Monday, Wednesday, and Friday afternoons, first half-year.* 96 hours.

Pathology

Arthur T. Hertig, M.D., *Shattuck Professor of Pathological Anatomy* and *Head of the Department.*

Required Course

Pathology A. *Second Year.* — A systematic survey of pathology. Lectures, laboratory study of pathologic histology, and demonstrations of gross pathologic material, partly from fixed specimens drawn from the Warren Museum, but more extensively from demonstrations of fresh autopsy and surgical material brought from the laboratories of the affiliated hospitals. Students visit in rotation the Pathology Laboratories of seven of the teaching hospitals affiliated with the Medical School for participation in the performance of autopsies.

Lectures. Dr. Hertig and Associates. *Mondays, Wednesdays, and Fridays, for twenty-six weeks.* 78 hours.

Laboratory work. Dr. Hertig and Associates. *Mondays, Wednesdays, and Fridays, for twenty-six weeks.* 195 hours.

Tropical Public Health

The following course is given by members of the Faculty of the Harvard School of Public Health.

Thomas H. Weller, M.D., *Richard Pearson Strong Professor of Tropical Public Health* and *Head of the Department.*

Required Course

Parasitology A. *Second Year.* — The important helminth and protozoan parasites of man are considered with reference to their geographic distribution, identification, mode of transmission, pathogenesis, immune reactions

and methods for prevention and control. Clinical aspects and chemotherapy of parasitic diseases are discussed. Emphasis is given to methods of laboratory diagnosis.

Lectures, demonstrations, and laboratory work. Dr. Weller and Associates. H.M.S. *Three times a week, during first half-year.* 30 hours.

Pharmacology

Otto Krayer, M.D., *Charles Wilder Professor of Pharmacology* and *Head of the Department.*

Required Course

Pharmacology A. *Second Year.* — The course in Pharmocology consists of lectures, demonstrations, experimental laboratory exercises and conferences. The students have an opportunity to learn about the fundamental pharmacological and toxicological concepts and to become acquainted with the important drugs. Emphasis is placed on the mode of action of pharmacological agents in such a way as to provide the student with a rational basis for the study of therapeutics with drugs. The analysis of pharmacological effects is based on experimental and clinical facts obtained from studies in man and animals. In the laboratory, stress is laid on observation and interpretation by the student.

Lectures. Dr. Krayer and Associates. *One hour, three times a week: Tuesday, Thursday and Saturday, first half-year; Monday, Wednesday and Friday, second half-year.* 84 hours.

Laboratory work and Conferences. Dr. Krayer and Associates. *Tuesday, Thursday and Saturday mornings, first half-year.* 76 hours.

Medicine

Joseph C. Aub, M.D., *Professor of Research Medicine, Director of the Medical Laboratories of the Collis P. Huntington Memorial Hospital,* and *Chairman of the Department of Medicine.*

Walter Bauer, M.D., *Jackson Professor of Clinical Medicine* and *Head of the Department at the Massachusetts General Hospital.*

Herrman L. Blumgart, M.D., *Professor of Medicine* and *Head of the Department at the Beth Israel Hospital.*

William B. Castle, M.D., S.M. (hon.), M.D. (hon.), S.D. (hon.), *Professor of Medicine* and *Head of the Department at Boston City Hospital.*

George W. Thorn, M.D., LL.D., SC.D. (hon.), *Hersey Professor of the Theory and Practice of Physic* and *Head of the Department at the Peter Bent Brigham Hospital.*

Earle M. Chapman, M.D., *Assistant Clinical Professor of Medicine at the Massachusetts General Hospital.*

Frederick S. Bigelow, M.D., *Associate in Medicine at the Boston City Hospital.*

Required Course

Medicine A. *Second Year.* — During the second half of the second year introductory aspects of internal medicine are covered in a correlated program of lectures and demonstrations in the courses in physical diagnosis and laboratory diagnosis. The application of the subject matter of preclinical courses to clinical medicine is emphasized. For their practical instruction in the methods of history taking, physical examination, and laboratory technique the students are divided into small groups.

Lectures and demonstrations on physical diagnosis and introductory aspects of clinical medicine. Dr. Chapman and Associates. *Four times a week.* 64 hours.

Section teaching in physical diagnosis and history taking. Dr. Chapman and Associates. Five teaching hospitals are used. *Each student has twenty-four exercises.* 84 hours.

Lectures and practical exercises in laboratory diagnosis. Dr. Bigelow and Associates. *Three times a week.* 96 hours.

Neurology and Psychiatry

This department is composed of three divisions: —

1. Neurology, Dr. Denny-Brown, at the Boston City Hospital and Dr. Adams at the Massachusetts General Hospital.
2. Neuropathology, under Dr. Adams, at the Harvard Medical School.
3. Psychiatry, under Dr. Solomon, at the Boston Psychopathic Hospital.

Raymond D. Adams, M.D., *Bullard Professor of Neuropathology* and *Head of the Department of Neurology at the Massachusetts General Hospital.*

Derek E. Denny-Brown, D.PHIL., F.R.C.P. (Lond.), M.D., *James Jackson Putnam Professor of Neurology* and *Head of the Department at the Boston City Hospital.*

Erich Lindemann, D.PHIL., M.D., *Professor of Psychiatry.*

Harry C. Solomon, m.d., *Professor of Psychiatry, Head of the Department at the Boston Psychopathic Hospital* and *Chairman of the Department.*

Required Courses

Neurology A. *Second Year.* — Clinical lectures are given at the Boston City Hospital and at the Massachusetts General Hospital to the entire class. The object of the course is to give the student a general knowledge of the principles of diagnosis and treatment of diseases of the nervous system as a preparation for later work.

Clinical lectures. Drs. Denny-Brown and Adams. 12 hours.

Neuropathology A. *Second Year.* — The course consists of lectures, laboratory work, and demonstrations, amounting to fifty-four hours. The lectures introduce conceptions of value for the third year courses in neurology and psychiatry and for the neurological parts of courses in internal medicine and in surgery. Microscopical and gross specimens are studied.

Lectures and laboratory work. Dr. Adams and Associates. *Three times a week, for six weeks.* 54 hours.

Medical Psychology. *First Year.* — Normal Emotional Development. Ten lectures. Introduction to the facts which have been established concerning the development of the human personality in the setting of the family and the culture.

Psychiatry A. *Second Year.* — The course consists of lectures introducing the methods of history-taking and the examination of patients applicable to the study of patients with psychiatric disorders. It is designed to serve as a preparation for the third year, when the student will be in direct contact with patients on the wards of the hospital.

FIRST YEAR

Lectures on Normal Emotional Development. Dr. Lindemann and Associates. *Twice a week, for five weeks.* 10 hours.

SECOND YEAR

Lectures. Dr. Solomon and Associates. 4 hours.

Section Teaching. Each student attends several three-hour exercises. 18 hours.

Pediatrics

Allan M. Butler, m.d., *Professor of Pediatrics* and *Head of the Department at the Massachusetts General Hospital.*

Charles A. Janeway, m.d., *Thomas Morgan Rotch Professor of Pediatrics* and *Head of the Department at the Children's Hospital.*

Clement A. Smith, m.d., *Associate Professor of Pediatrics at the Boston Lying-in Hospital* and *Chairman of the Department.*

Required Courses

Pediatrics A. *Second Year.* — Lectures are given during the second year to familiarize the students with the study of children's diseases before they come into contact with patients. In this series are discussed the physiology of nutrition and the principles of infant feeding, the anatomical and physiological differences between children and adults, a consideration of the normal growth and development of children and the physiology and pathology of extracellular body fluids.

Clinical lectures. Children's Hospital. *Second half-year.* 9 hours.

Obstetrics

Duncan E. Reid, m.d., *William Lambert Richardson Professor of Obstetrics* and *Head of the Department.*

Required Course

Obstetrics A. *Second Year.* — Lectures on Normal Obstetrics. Dr. Reid and Associates. B.L.I.H. *Three times a week for four weeks.* 12 hours.

Surgery

Edward D. Churchill, m.d., dr. (hon.), s.d. (hon.), *John Homans Professor of Surgery* and *Head of the Department at the Massachusetts General Hospital.*

Jacob Fine, m.d., *Professor of Surgery at the Beth Israel Hospital* and *Head of the Department at the Beth Israel Hospital.*

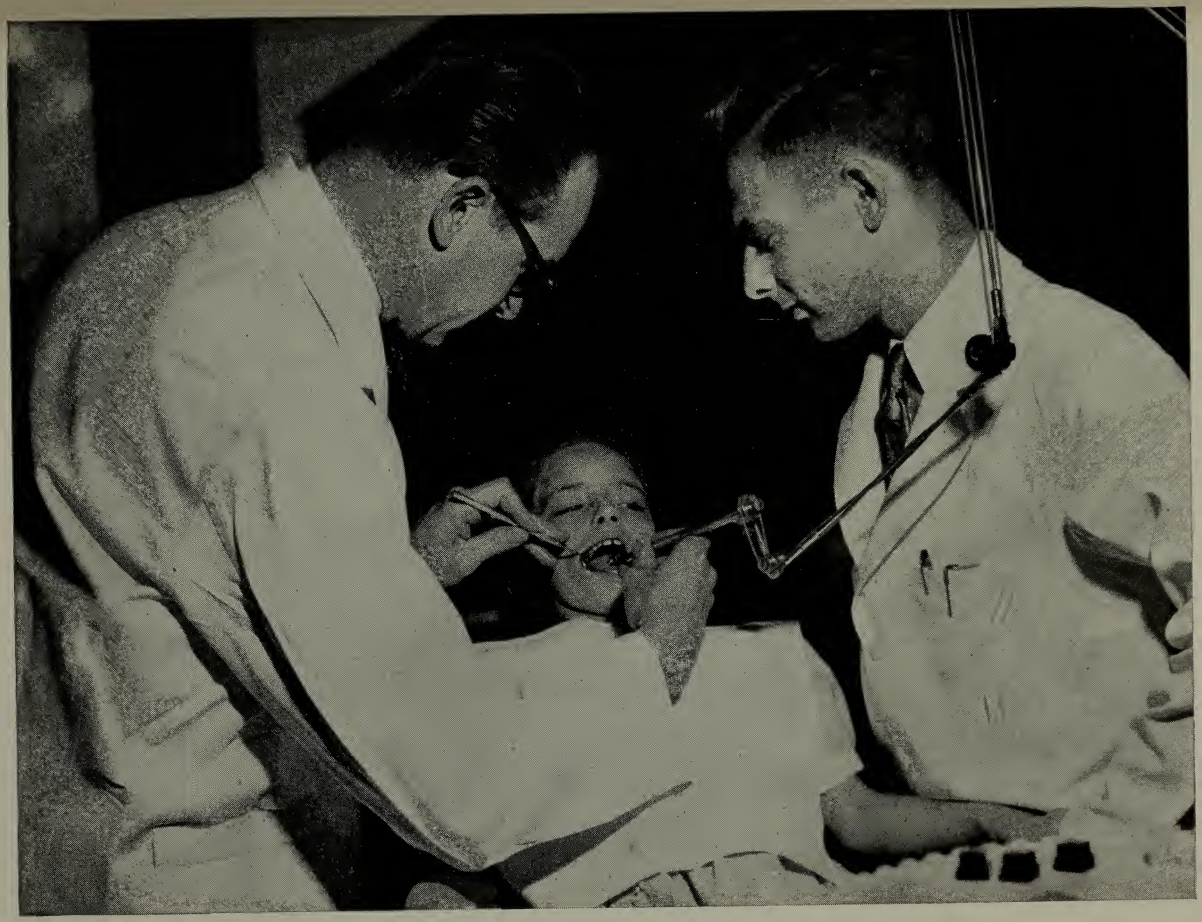
Robert E. Gross, m.d., s.d. (hon.), *William E. Ladd Professor of Child Surgery* and *Head of the Department at the Children's Hospital.*

Francis D. Moore, m.d., *Moseley Professor of Surgery* and *Head of the Department at the Peter Bent Brigham Hospital.*

Henry K. Beecher, m.d., *Henry Isaiah Dorr Professor of Research in Anaesthesia.*

Required Course

Surgery A. *Second Year.* — The course is designed to correlate preclinical sciences with the basic principles underlying the surgical management of



PERSONAL INSTRUCTION

TUTORIAL TEACHING

injury and disease. The Department of Surgery joins with the Department of Medicine in a series of exercises in physical diagnosis and laboratory medicine to offer unified instruction in case taking. Practical exercises are offered that introduce the student to basic surgical techniques.

Lectures and demonstrations on the fundamental aspects of clinical surgery and anaesthesia. Drs. CHURCHILL, FINE, GROSS, MOORE, BEECHER, and Associates. *Second half-year.* 16 hours.

Each student has twenty-four exercises. 84 hours.

DIVISION OF STUDIES
FOR THE THIRD AND FOURTH YEARS

THIRD YEAR

	Hours Seminar and (or) Demonstration
Dental Morphology	32
Oral histology and pathology	32
Introduction to research in dental science	56
Dental medicine (*)	32
Clinical clerkship in dental medicine, Massachusetts General Hospital	14
Oral diagnosis (*)	96
Oral hygiene (*)	6
Operative dentistry (*)	70
Endodontics (*)	9
Periodontics (*)	16
Complete denture prosthesis (*)	47
Removable partial prosthesis	20
Fixed partial prosthesis	5
Oral surgery	8
Radiology (*)	8
Orthodontics (*)	58
Dental public health	24
Nutrition	8
Student research project	30
Pediatric dentistry (*)	12
Seminars	30
General clinic	565
Total	1178

FOURTH YEAR

	Hours Seminar and (or) Demonstration
Dental medicine (*)	48
Clinical clerkship in dental medicine, Massachusetts General Hospital	132
Oral diagnosis (*)	144
Operative denitstry (*)	12
Orthodontics (*)	38
Oral surgery (*)	32
Pediatric dentistry, Children's Hospital (*)	33
Complete denture prosthesis (*)	
Removable partial prosthesis (*)	
Fixed partial prosthesis (*)	55
Dental materia medica	16
Student research project	60
Periodontics (*)	16
Endodontics (*)	16
Lectures in general medicine (elective), Harvard Medical School	32
Radiology (*)	12
Practice management and dental jurisprudence	6
Seminars	30
General clinic	496
Total	1178

(*) These subjects are also covered in general clinic for an indefinite number of hours.

The tabulated hours above indicate the approximate allotment of time for the third and fourth academic years in the School of Dental Medicine.

The heading general clinic consists of clinical practice in dental medicine, orthodontics, prosthetic dentistry, oral surgery, radiology, periodontics and operative dentistry including oral diagnosis, oral hygiene, endodontics and pediatric dentistry.

As the entering classes are limited, it is possible to reduce the time usually involved in courses of dental techniques. Individual instruction, demonstrations, seminars and conferences replace the traditional lecture system to a large degree.

Oral Histology and Pathology

Reidar F. Sognnaes, ph.d., d.m.d., *Charles A. Brackett Professor of Oral Pathology* and *Associate Dean.*

John T. Albright, d.d.s., *Research Associate in Oral Pathology.*

Peter K. Yen, d.m.d., *Assistant in Oral Pathology.*

Oral Histology and Pathology — 3rd and 4th years.

The teaching in the third year begins with a microscopic laboratory course and a series of discussions devoted to the histology and pathology of the tissues of the oral cavity and is augmented in the third and fourth years by the clinical teaching staff through many activities in the clinic and in the hospitals.

Dental Anatomy

Myron J. Van Leeuwen, d.d.s., *Assistant Professor of Operative Dentistry* and *Director of Clinic.*

Dental Anatomy — 1st semester 3rd year.

Instruction in dental anatomy and tooth morphology. Special emphasis is placed on individual tooth form and the relationship of the tooth to adjacent teeth, opposing teeth and supporting tissue. Technique practice in reproduction of tooth form is stressed using natural extracted teeth.

Radiology

Herman DeWilde, m.d., d.m.d., *Clinical Associate in Oral Surgery.*

Radiology — 3rd and 4th years.

Principles of applied roentgenology and the interpretation of radiographs are covered in the third year, with consideration of the electro-physical basis of roentgenology in the fourth year. Practice in radiological technique is given in both years.

Operative Dentistry

G. Earl Thompson, d.m.d., *Associate Clinical Professor of Operative Dentistry.*

Myron J. Van Leeuwen, d.d.s., *Assistant Professor of Operative Dentistry* and *Director of Clinic.*

John V. Blasi, d.m.d., *Clinical Associate in Operative Dentistry.*

James W. Etherington, d.m.d., *Clinical Associate in Operative Dentistry.*

Gerald L. O'Neill, d.m.d., *Clinical Associate in Operative Dentistry.*

Abraham Schwartz, d.m.d., *Instructor in Operative Dentistry.*

Charles L. Boyers, d.m.d., *Assistant in Pediatric Dentistry.*

C. Kenneth Lasher, d.m.d., *Assistant in Operative Dentistry.*

Ernest E. Adams, d.m.d., *Assistant in Operative Dentistry.*

Operative Dentistry — 3rd and 4th years.

Early student-patient contact and immediate clinical application of learned technical procedures are emphasized. In the third year instruction is given in oral hygiene, accepted methods of dental prophylaxis and technique of cavity preparation in conjunction with a study of the various types of restorative materials.

In the fourth year gold foil technique is given, and clinical practice in all phases of operative procedure is continued.

Prosthetic Dentistry

Arthur M. Maloney, d.m.d., *Associate Professor of Prosthetic Dentistry.*

Joseph P. Jazowski, d.m.d., *Assistant Clinical Professor of Prosthetic Dentistry.*

Harold L. Ehrlich, d.m.d., *Clinical Associate in Prosthetic Dentistry.*

Douglas A. Atwood, m.d., d.m.d., *Instructor in Prosthetic Dentistry.*

Herbert Berman, d.m.d., *Instructor in Prosthetic Dentistry.*

David J. Farrell, d.m.d., *Instructor in Prosthetic Dentistry.*

Emile C. A. Samaha, d.m.d., *Instructor in Prosthetic Dentistry.*

Abraham Schwartz, d.m.d., *Instructor in Operative Dentistry.*

Roy L. McIntosh, d.m.d., *Assistant in Prosthetic Dentistry.*

Prosthetic Dentistry — 3rd and 4th years.

Prosthetic dentistry which includes complete, fixed and removable prosthesis is taught in the third and fourth years. Through lectures, conferences and demonstrations the student receives clinical and laboratory instruction in the anatomy and physiology of the mouth as it applies to prosthetic den-

tistry, and in the materials and techniques of prosthetic restoration directed toward oral health, function and aesthetics. Every effort is made to provide early clinic contacts and to teach technique on clinic cases. The high teacher-student ratio, small classes and special physical facilities favor this type of instruction.

Complete Denture Prosthesis — Dr. MALONEY and Staff.

3rd Year

Lectures, clinical and laboratory demonstrations and clinical practice.

4th Year

Lectures and clinical practice.

Removable Partial Prosthesis — Dr. MALONEY and Staff.

3rd Year

Lectures, clinical and laboratory demonstrations.

4th Year

Lectures and clinical practice.

Fixed Partial Prosthesis — Dr. JAZOWSKI and Staff.

4th Year

Lectures, clinical and laboratory demonstrations and clinical practice.

Stomatology

DAVID WEISBERGER, D.M.D., M.D., *Professor of Dental Medicine* and *Chief of the Dental Department at the Massachusetts General Hospital.*
HENRY D. EPSTEIN, D.M.D., *Instructor in Dental Medicine.*
OWEN W. KITE, D.M.D., *Assistant in Dental Medicine.*
PAUL W. GOLDHABER, D.D.S., *Research Fellow in Dental Medicine.*
LESLIE M. OHMART, PH.G., PH.C., *Lecturer on Dental Medicine.*

Dental Medicine — 3rd and 4th years.

A course devoted to the diagnosis and treatment of oral diseases, i.e., diseases of the periodontium, dental pulp, oral mucosa and other oral structures together with their correlation to systemic conditions. Lectures, seminars, clinical practice and observation both in the Dental Infirmary and at the Massachusetts General Hospital.

Infirmary procedures, identification of oral structures, methods of oral examination, history taking, and common methods of diagnosis for dental

and oral disease are given in both years, supplemented by practice in the general clinic.

Periodontics — 3rd and 4th years.

Emphasis is placed on the recognition and correction of systemic factors contributing to diseases of the supporting structures of the teeth.

Various methods in local treatment are taught and applied in the clinic. The care of the entire patient is stressed.

Dental Materia Medica — 2nd semester 4th year

Specific consideration of dental problems and development of formulary for clinical dentistry, in addition to coverage of practical therapeutic problems in the general clinic.

Oral Surgery

David Weisberger, D.M.D., M.D., *Professor of Dental Medicine* and *Chief of the Dental Department at the Massachusetts General Hospital.*

Herman DeWilde, M.D., D.M.D., *Clinical Associate in Oral Surgery.*

George Christman, D.M.D., *Instructor in Oral Surgery.*

Walter C. Guralnick, D.M.D., *Instructor in Oral Surgery.*

Richard L. Miner, D.D.S., *Assistant in Oral Surgery.*

Oral Surgery — 3rd and 4th years.

The students are taught through lectures and seminars the principles of surgery as applied to exodontia, minor oral surgery, maxillo-facial surgery and fractures and anaesthesia.

Individual clinical instruction in exodontia, minor oral surgery and anaesthesia is given at the Dental Infirmary.

In the fourth year students are assigned to the Massachusetts General Hospital as clinical clerks on the Dental Service. At the hospital more extensive surgery of the oral cavity including traumatic injuries to the face and jaws is observed. The student takes active part in the study and treatment of such cases.

Pediatric Dentistry

Paul K. Losch, D.D.S., *Associate Professor of Pediatric Dentistry at the Children's Hospital.*

Edward I. Silver, D.M.D., *Lecturer on Orthodontics.*

Charles L. Boyers, Jr., D.M.D., *Assistant in Pediatric Dentistry.*

Sidney Farber, M.D., *Professor of Pathology at the Children's Hospital.*
Robert E. Gross, M.D., D.Sc. (hon.), *William E. Ladd Professor of Child Surgery* and *Head of the Department at the Children's Hospital.*
Charles A. Janeway, M.D., *Thomas Morgan Rotch Professor of Pediatrics.*
Edward B. D. Neuhauser, M.D., *Associate Clinical Professor of Radiology at the Children's Hospital.*

Pediatric Dentistry — 3rd and 4th years.

Those phases of operative dentistry, oral hygiene, and orthodontics applicable to young children and carried on in the general clinic in the Dental Building. Special lectures are given in the third year. A course in dental pediatrics given in the fourth year is designed to cover those phases of systemic and oral disease best seen under hospital conditions and is conducted at the Children's Hospital. Operative work is performed only for those children admitted to the Hospital. Cases involving systemic sequelae of dental disease and oral manifestations of systemic disease receive special consideration. Students attend regular hospital conferences in surgery, clinical pathology, roentgenology and medicine. Medical and dental ward rounds are made.

Orthodontics

Melvin I. Cohen, D.M.D., *Clinical Associate in Orthodontics.*
Julian M. Rothblatt, D.M.D., *Instructor in Orthodontics.*
Lennard T. Swanson, D.M.D., *Instructor in Orthodontics.*

Orthodontics — 3rd and 4th years.

Clinical instruction consists in the observation of developing dentures, the use of preventive measures, and the use of selected orthodontic treatment procedures by each student. Emphasis is placed on the development of sound clinical judgment as a basis for the selection and care of orthodontic patients within the scope of general practice. Opportunity is provided for experience beyond the required minimum for those students with special interest and ability. Discussions and demonstrations supplement the work of the clinic. Observation of a great variety of orthodontic treatments is provided at the Children's Medical Center.

Endodontics

Gerald L. O'Neill, D.M.D., *Clinical Associate in Operative Dentistry.*

Endodontics — 3rd and 4th years.

In the third year the clinical and pathological presentation of pulpal-

periapical disease is integrated with the teaching of oral pathology. In this manner the student achieves an early appreciation of the pathological course of events and the clinical symptoms which necessitate endodontic therapy.

In the fourth year diagnostic conferences and clinical experience involving conservative pulp canal therapy round out the student's introduction to the field.

Dental Research

Roy O. Greep, ph.d., a.m. (hon.), *Professor of Anatomy in the School of Dental Medicine.*

Paul L. Munson, ph.d., *Assistant Professor of Pharmacology in the School of Dental Medicine.*

F. Norman Briggs, ph.d., *Instructor in Pharmacology in the School of Dental Medicine.*

Alexander D. Kenny, ph.d., *Instructor in Pharmacology in the School of Dental Medicine.*

Lionel W. Bryer, b.d.s., *Research Fellow in Dental Medicine.*

Svein U. Toverud, d.m.d., *Milton Research Fellow in Dental Medicine.*

Reidar F. Sognnaes, ph.d., d.m.d., *Charles A. Brackett Professor of Oral Pathology* and *Associate Dean.*

David Weisberger, d.m.d., m.d., *Professor of Dental Medicine.*

James H. Shaw, ph.d., *Assistant Professor of Biological Chemistry in the School of Dental Medicine.*

Introduction to Dental Research — 1st semester 3rd year.

A series of ten or more one-hour lectures on specific research projects available for student participation in the research laboratories of the School of Dental Medicine.

Research Project — 3rd and 4th years.

In order to gain a more realistic appreciation of the nature of scientific research, all students of the Harvard School of Dental Medicine, as a requirement for graduation, participate in a laboratory or clinical investigation of their own choosing. By the end of the first semester of the third year, after completion of the course, Introduction to Dental Research, the student has chosen a research supervisor from the faculty and the subject to be investigated. He has also presented his working plan in a seminar. During

the rest of the third year, and in some cases during the summer months, he attempts to master the techniques necessary for his work. During the fourth year, with the advice and aid of the faculty research supervisor, the project is carried forward, and at the end of the year, the student presents a seminar summarizing his results. Both the third and fourth-year seminars are also required in written form for permanent reference in the Library.

Seminar — 3rd and 4th years.

A seminar comprising a review of the basic literature and a plan for a research project is presented by each third-year student at the end of the first semester. A second seminar summarizing the results of the research project is presented by each fourth-year student late in the second semester. During the balance of the year seminars on selected topics related to the dental and medical sciences, dental medicine, and the practice of dental specialties are presented by members of the medical and dental faculties and visiting scholars.

Nutrition

James H. Shaw, ph.d., *Assistant Professor of Biological Chemistry in the School of Dental Medicine.*

Nutrition — 1st and 2nd semesters, 3rd year.

Discussion of relations of nutrition to the development, maturation and maintenance of the oral tissues. Discussion of nutritional requirements, relative values of various foods and the preparation of diet histories. Clinic practice in the evaluation of diet histories and in the development of suitable recommendations for the patient.

Dental Public Health

James M. Dunning, d.d.s., m.p.h., *Lecturer on Public Health Dentistry.*
Howard M. Marjerison, d.m.d., s.d. (hon.), *Lecturer on Pediatric Dentistry.*

John E. Gordon, m.d., *Professor of Preventive Medicine and Epidemiology.*
David D. Rutstein, m.d., *Professor of Preventive Medicine.*
Franz Goldmann, m.d., *Associate Professor of Medical Care.*

Dental Public Health — 3rd year.

Public Health principles and practices with emphasis on the participation of the dentist. Elements of biostatistics and epidemiology. Lectures, seminars and field work.

Dental Practice Management

James M. Dunning, d.d.s., m.p.h., *Lecturer on Public Health Dentistry.*
Richard Ford, m.d., *Assistant Professor of Legal Medicine.*

Dental Practice Management — 2nd semester 4th year.

Lectures and seminars on practice management, ethics and jurisprudence.

COURSES OFFERED TO MEDICAL STUDENTS BY THE SCHOOL OF DENTAL MEDICINE

Opportunities for voluntary and elective work are available at the School of Dental Medicine for third and fourth year medical students. Course material will be designed to meet individual needs where possible. Instruction will be on a tutorial basis.

Make all inquiries at the Dean's Office, School of Dental Medicine.

Fourth Year Elective Courses

2. *Advanced Dental Medicine.* Half or full course designed for graduates of the School of Dental Medicine, now fourth year students at the Medical School. School of Dental Medicine or hospital.

   Staff to be selected as the need arises.

20. *Research.* An opportunity for special study for a period of one or more months. School of Dental Medicine or hospital.

    Staff to be selected as the need arises.

Voluntary Courses

30. *Diagnosis of Oral Diseases.* If ten or more registrations are received, a course of about six three-hour sessions will be arranged. Lectures, seminars, clinic practice. November and December, Thursday p.m. 3:30–5:00 Dental Infirmary and the Massachusetts General Hospital.

    Dr. Weisberger and Associates.

COURSES FOR HIGHER DEGREE IN MEDICAL SCIENCE

In cooperation with the Division of Medical Sciences of the Faculty of Arts and Sciences, curricula will be designed as need arises for students seeking advanced degrees in the Medical Sciences. Facilities will be used in Harvard College (Cambridge), the Medical School, the School of Dental Medicine, and any pertinent teaching hospitals.

COURSE FOR DENTAL GRADUATES

The following course is given in cooperation with the Committee on Courses for Graduates of the Faculty of Medicine.

Dental Medicine 1.

Dr. Roy O. Greep and Associates.

Harvard School of Dental Medicine.

Four or eight months, October through January and/or February through May; daily, all day, except Saturday afternoons.

Attendance limited.

Tuition, $1000 for eight months.

This course is designed for dental teachers, foreign students of special ability, and others who wish to combine clinical study with elective research in the laboratories of the School. Only a very small number of students will be admitted. Curriculum will be designed to meet individual needs and the entire facilities of the School may be utilized.

STAFF

Members of the Faculty of Medicine are indicated in heavy face type.

Adams, E. A. 38
Adams, R. D. **32**
Albright, J. T. 37
Aub, J. C. **31**
Atwood, D. A. 27, 38
Bauer, W. **31**
Beecher, H. K. **34**
Berman, H. 38
Bigelow, F. S. **32**
Blasi, J. V. 38
Blumgart, H. L. **31**
Boyers, C. L. 27, 38, 40
Briggs, F. N. 42
Bryer, L. W. 42
Butler, A. M. **33**
Castle, W. B. **31**
Christman, G. 27, 40
Chapman, E. M. **32**
Churchill, E. D. **34**
Cohen, M. I. **27, 41**
Denny-Brown, D. E. **32**
DeWilde, H. **37, 40**
Dunning, J. M. 43, 44
Eaton, M. D. 29
Ehrlich, H. L. **38**
Epstein, H. D. 39
Etherington, J. W. **38**
Farber, S. **41**
Farrell, D. J. 27, 38
Fine, J. **34**
Ford, R. **44**
Goldhaber, P. W. 39
Goldmann, F. **43**
Gordon, J. E. **43**
Greep, R. O. **27, 42, 45**
Gross, R. E. **34, 41**
Guralnick, W. C. 40
Hastings, A. B. **29**
Hertig, A. T. **30**
Janeway, C. A. **34, 41**
Jazowski, J. P. **38**
Kenny, A. D. 42
Kite, O. W. 27, 39
Krayer, O. **31**
Landis, E. M. **28**
Lasher, C. K. 38
Lindemann, E. **32**
Losch, P. K. **40**
Maloney, A. M. **38**
Marjerison, H. M. 43
McIntosh, R. L. 38
Miner, R. L. 40
Moore, F. D. **34**
Munson, P. L. **42**
Neuhauser, E. B. D. **41**
Ohmart, L. M. 39
O'Neill, G. **38, 41**
Reid, D. E. **34**
Rothblatt, J. M. 27, 41
Rutstein, D. D. **43**
Samaha, E. C. A. 38
Schwartz, A. 38
Shaw, J. H. **42, 43**
Silver, E. I. 40
Smith, C. A. **34**
Sognnaes, R. F. **37, 42**
Solomon, H. C. **33**
Swanson, L. T. 27, 41

Thompson, G. E. **38**
Thorn, G. W. **32**
Toverud, S. U. 42
VanLeeuwen, M. J. **37, 38**
Weisberger, D. **39, 40, 42, 44**
Weller, T. H. 30
Wislocki, G. B. **28**
Yen, P. K. 37

SCHOOL OF DENTAL MEDICINE

STUDENTS 1954–1955

Fourth Class

Apfel, Donald Arthur, A.B. (*Tufts Coll.*) 1951. *Brooklyn, N. Y.*
Arons, Marvin Shield, B.S. (*Yale Univ.*) 1952. *Ansonia, Conn.*
*Auskaps, Aina Marija, B.A. (*Riga Univ.*, Latvia) 1940, [D.D.S., *Dental School of Munich*, Germany, 1945]. *Jamaica Plain*
Berry, David Victor, A.B. 1949. *Brookline*
Ferri, John Joseph, A.B. (*Williams Coll.*) 1951. *Springfield*
Flack, Stuart, A.B. (*Cornell Univ.*) 1948, S.M. (*ibid.*) 1949. *Utica, N. Y.*
Gold, Harold Samuel, A.B. (*Brown Univ.*) 1951. *Denville, N. J.*
Liffmann, Kenneth Emil, A.B. (*Brown Univ.*) 1951. *Providence, R. I.*
*Meicrovics, Aina M. (*Univ. of Latvia Medical School*), [D.D.S., *Univ. of Hamburg Dental School, Germany*, 1946]. *Washington, D. C.*
Minkoff, Robert, A.B. (*Cornell Univ.*) 1951. *Albany, N. Y.*
‡Nichols, Martin Stanley (*Yale Coll.*). *Brooklyn, N. Y.*
Stolman, Joseph Morris, A.B. (*Univ. of Connecticut*) 1951. *Baltic, Conn.*
§Stoops, Ward Robert, B.S. (*Antioch Coll.*) 1952. *Nappanee, Ind.*
Toomey, James Michael, S.B. (*Coll. of the Holy Cross*) 1951. *Springfield*

Third Class

Burdette, Hugh, B.S. (*Univ. of Alabama*), 1953. *Beckley, W. Va.*
Cohen, Sumner, A.B. 1952. *Chelsea*
Edelstein, Richard Alan, A.B. 1952. *Brooklyn, N. Y.*
Halperin, Alex Harris, B.SC. (*McGill Univ.*) 1951, M.SC. (*ibid.*) 1952. *Montreal, P.Q., Canada*
Hausmann, Ernest, A.B. (*New York Univ.*) 1951. *Boston*
*Laufer, Max [D.D.S., *Univ. of Munich Dental School*, Germany, 1932]. *Watertown*
Matusow, Robert Jacques, A.B. (*Rutgers Univ.*) 1944, S.M. (*Univ. of Michigan*) 1950. *Ann Arbor, Mich.*
McQueen, Thomas Hugh, S.B. (*Pennsylvania State Coll.*) 1952. *Mifflinburg, Pa.*

Oaks, James Howard, A.B. (*Wesleyan Univ.*) 1952. *Collingswood, N. J.*
Rosenberg, Earle Harold, A.B. 1951, A.M. (*Boston Univ.*) 1953. *Cambridge*
Sade, Elenore Ruth, S.B. (*Simmons Coll.*) 1952. *Concord*
‡Ship, Irwin (*Columbia Univ. College of Pharmacy*). *New York, N. Y.*
‡Stern, Martin (*Utica Coll. of Syracuse Univ.*). *Utica, N. Y.*
Wells, Herbert, A.B. (*Yale Univ.*) 1952. *New Haven, Conn.*
Wyshak, George Habeeb, A.B. 1947, A.M. (*Boston Univ.*) 1949, PH.D. (*Univ. of California*) 1952. *Chestnut Hill*

Second Class

Budde, Norman Thomas, B.A. (*New York Univ.*) 1952. *New Hyde Park, N. Y.*
‡Cushing, Charles Richmond (*Univ. of Maine*). *Bangor, Maine*
Ecker, Howard Malcolm, A.B. 1953. *Worcester*
Grossman, Richard Charles, B.A. (*Univ. of California at Los Angeles*) 1953. *Los Angeles, Calif.*
Hall, Hugh David, B.S. (*Univ. of Oklahoma*) 1953. *Oklahoma City, Okla.*
Kaye, Harold, B.A. (*Yale Univ.*) 1953. *New Haven, Conn.*
Kochanowsky, Lester, B.S. (*Teachers Coll. of Connecticut*) 1943, M.A. (*Trinity Coll.*) 1951. *New Britain, Conn.*
Korchek, David Lee, B.A. (*Univ. of California at Los Angeles*) 1951, M.A. (*ibid.*) 1953. *Los Angeles, Calif.*
McGeown, John Roland, B.S. (*Fordham Univ.*) 1953. *Teaneck, N. J.*
Pross, Arnold, A.B. (*Columbia Univ.*) 1954. *Bronx, N. Y.*
Rubin, Ronald Philip, A.B. 1953. *Gloversville, N. Y.*
Saxe, Stanley Richard, A.B. (*Boston Univ.*) 1953. *Malden*
Toy, Benjamin Leon, A.B. 1948. *Boston*
Zackin, Susman Jerome, B.A. (*Wesleyan Univ.*) 1953. *Waterbury, Conn.*

First Class

Ash, Homer Lee, B.S. (*Univ. of Illinois*) 1951. *Huntington, W. Va.*
Cohen, Carl Greenfield, A.B. (*Univ. of California at Los Angeles*) 1954. *Far Rockaway, N. Y.*
‡Elks, George Juris (*Washington Square Coll.*) *New York, N. Y.*
Gold, Bernard Donald, A.B. (*New York Univ.*) 1952. *Brooklyn, N. Y.*
Goldberg, Morton Harold, B.S. (*Univ. of Massachusetts*) 1954. *Springfield*
Keller, Andrew Zellus, B.S. (*Morehouse Coll.*) 1949. *Chattanooga, Tenn.*
Leach, Leon Benjamin, A.B. (*Brown Univ.*) 1952, M.S. (*Univ. of Rhode Island*) 1954. *Providence, R. I.*

Nalbandian, John, A.B. (*Brown Univ.*) 1954. *Cranston, R. I.*
Oakley, Joseph Carter, A.B. 1954. *Bardstown, Ky.*
‡Safian, Nathan Abram (*Richmond Coll.*) *Portsmouth, Va.*
Schumer, Sheldon, B.A. (*Brooklyn Coll.*) 1951. *Brooklyn, N. Y.*
‡Stempien, James Henry (*Yale Coll.*) *New Britain, Conn.*
Tingey, William Horne, Jr., B.S. (*Univ. of Utah*) 1952. *Salt Lake City, Utah*
Trabitz, Barry David, B.S. (*Purdue Univ.*) 1954. *Brooklyn, N. Y.*

SUMMARY 1954–55

Fourth Class	14
Third Class	15
Second Class	14
First Class	14
Total	57

‡ Admitted on basis of three years' college work.
° Transferred to second year class.
* Transferred to third year class.
§ Admitted on basis of four years' college work.

AIR VIEW OF THE HARVARD MEDICAL-DENTAL AREA. THE DENTAL INFIRMARY IS TO THE LEFT ON THE FAR SIDE OF LONGWOOD AVENUE (HORIZONTAL) THE MEDICAL SCHOOL ENCIRCLES THE GREEN

ACADEMIC CALENDAR FOR 1955–56

Monday, July 4	Independence Day: a holiday
Monday, September 5	Labor Day: a holiday
Friday, September 23	Registration for Class of 1959
Monday, September 26	Registration for 2nd, 3rd and 4th year students *Academic year* begins for all classes
Friday, October 7	Last day for filing applications for scholarships for 1955–56
Monday, October 10	Observance of Columbus Day: a holiday
Friday, November 11	Veterans' Day: a holiday
Thursday, November 24	Thanksgiving Day: a holiday
December 22, 1955–January 2, 1956 (inclusive)	Recess for all classes
Monday, January 30	*Second half year* begins for 1st and 2nd year classes
Friday, February 10	Last day for filing applications for University and general scholarships for 1956–57
Wednesday, February 22	Washington's Birthday: a holiday
Friday, March 30	Last day for receiving applications of candidates for the D.M.D. degree in June 1956
April 1–8 (inclusive)	Recess for 3rd and 4th year classes
April 15–22 (inclusive)	Recess for 1st and 2nd year classes
Thursday, April 19	Patriot's Day: a holiday
Wednesday, May 30	Memorial Day: a holiday
May 28–June 2	Examination Period for 1st and 2nd year classes
Friday, June 1	Class Day
Thursday, June 14	Commencement